EMENT BOOK

Dimensions			Contents	Reference to last Measurem
Length	Breadth	Depth		
4	5	6	7	8

First & Final.

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192224

No. .....
of work ..... From ..... To .....
of Contractor of nature of Agency.....
of commencement of work.....

Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
		Length	Breadth	Depth		
2	3	4	5	6	7	8
Name of work: Providing drinking water by sinking borewell & pipelins in ward No 10. Est cost: 10.00 Lakhs Job code: 010-19-000005 Indent No: 34056 / P-code: P-3293 W/o Amount: 779539.00 Name of Agency: A. Chiranjeevi No 31, Kaveriagara Kavalbyrasandra, Bangalore-32						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No: 01 Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS, & PWSS by vertical electrical sounding by adopting Wenner or Schlumberger's method, including reconnaissance survey of geological formation geophysical investigation of existing ground water in the vicinity, its quality & acceptability of the users indicating the location of site. etc... recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.00 m in consolidated formation for sealing of casing pipe, depth of						

Contractor of nature of Agency.....

commencement of work.....

Full description, etc, of work	Qty	Num
2		
drilling required to u... be tapped, probable yield... transportation of instru... as per the direction o...	1	1
@ Rs 1541.0...		

OK

Depth 6	Contents 7	Reference to last Measurem 8
li for sinking boreuell		
ation either through		
l electrical sounding		
ethod, including		
ration geophysical		
e identity, its quality		
e location of site:		
uired to seal the top		
dra depth of 1.00 m		
aning pipe, depth of		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192225

to .....
of work ..... From ..... To .....
of Contractor of nature of Agency.....
of commencement of work.....

Full description, etc, of work 2	Qty	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Drilling required to bore full depth of aquifer proposed to be tapped, probable yield & other information required including transportation of instrument & accessories to work site., etc. as per the directions of the Engineer in charge of the work.							
	1	1	.			1541.00	
@ Rs 1541.00							1541.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 02: Sinking borewell of 165mm ϕ clear using type fast hydraulic rig of capacity 250 PSI G & above CFM & above in all strata including over burden up to 20m fixing of casing pipes, collars & cap with necessary cutting. threading & welding including transportation of rig & supporting vehicles Crew charges & cost of consumable etc., complete including yield testing at the final depth with a min working of compressor for one hour (excluding cost of casing pipes, collars & cap etc.,) with all lead & lift, loading unloading. & labour charges etc., complete & as per the						

Full description, etc, of work | Qty | Num

direction of Engineer

0-50m	1	
50-100m	1	
100-150m	1	
150-200m	1	
200-250m	1	
250-300m	1	

BOOK

ns		Contents	Referen to last Measuren
eadth 5	Depth 6	7	8
65mm ϕ	clear using hyd		
50PSIG &	above CFM &		
burden up to 20m			
ap with necessary			
ing transportation &			
ges & cost of consumable			
at the final depth			
one hour (excluding			
) with all lead & lift,			
complete & as per			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192226

No. .....
of work ..... From ..... To .....
of Contractor of nature of Agency.....
Commencement of work.....

Full description, etc, of work	Qty.	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2		3	4	5	6	7	8
direction of Engineer in charge of the work 0 to 50m.							
0-50m	1	x	50 x			@Rs250	= 12500.00
50-100m	1	x	50 x			@Rs 327	= 16350.00
100-150m	1	x	50 x			@Rs 365	= 18250.00
150-200m	1	x	50 x			@Rs 384	= 19200.00
200-250m	1	x	50 x			@Rs 445	= 22250.00
250-300m	1	x	50 x			@Rs 477	= 23850.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 08: Supply of ISI mark 175 mm nominal bore, plain end steel casing pipe - grade of steel FE 410 of wall thickness 5.4mm thick conforming to IS 4270: 2001 & latest amendments, electric resistance welded steel tube material & conforming to IS 1387/1993 & manufactured by basic open earth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded conforming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 & the other end with screwed pipes ISI marked 25.10 kg/mts (Inclusive of all taxes & duties) complete						

M. A. R.
Measu

From ....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Qty	Number
2		3
and as per the directions		
	1	1
@ Rs 1053.00		
Item No 09: Providing 250 m		
as per the direction		
	1	1
@ Rs 1751.00		

BOOK

ns		Contents	Referen to last Measurem
eadth 5	Depth 6	7	8
175 mm nomcial bore,			
de of steel FE 410 of wall			
IS 4270 : 2001 & latest-			
ded steel tube material			
nufactured by basic			
er process is random			
threaded conforming to			
ket conforming to IS			
ued pipes ISI marking			
ting) complete			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192227

...... From ..... To .....

of Contractor of nature of Agency.....

of commencement of work.....

Full description, etc, of work	Qty	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
2		3	4	5	6	7	8
and as per the directions of the Engineers in charge of the work.							
	1	1	70			70	
@ Rs 1053.00							73710.00
Item No 09: Providing 250 mm ϕ PVC pipe lodg/ con ete., complete &							
as per the direction of the engineer in charge of the work.							
	1	1	18			18	
@ Rs 1751.00							31518.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2 Qty	3	4	5	6	7	8
	Item No 10: Providing & fixing borewell cap & clamp set etc., complete as per the directions of the engineer in charge of work.					1	
		1	× 1 ×				1431.00
	@ Rs 1431.00						

CF to MB

Full description, etc, of work | Num

2

Item No 11: Supply & de
Lubi / Saba / Alakanda / Ca
th 150 mm ϕ borewell
pump close coupled by mea
HP, 90 Hy, 380/440 volts
complete & as per the direct

@ Rs 44849.00

NT BOOK

mensions			Contents	Referen to last Measuren
	Breadth	Depth		
	5	6	7	8

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 12: Providing GI pipe 50mm B class etc, complete & as per the directions of the EIC. of the work.						
		260m	———			260m	
	@ Rs 329.00 = 329 x 260m					=	85540.00
	Item No 13: Providing collar 50mm etc., complete as the directions of EIC of the work						
		44				44 Nos	
	@ Rs. 143.00 = 44 x 143					=	6292.00

M. A.
Me

From

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Number
2	3
Item No 14: Supply & dre	
Jump cable manufactured wi	
copper with low resistance	
of IS: 8130-1984 & Virgi	
extruded PVC sheathed su	
etc, complete as per EIC of the	
@ Rs 100.00/m = 100 x 540	

T BOOK

sions		Contents	Referen to las Measuren
Breadth 5	Depth 6	7	8
mm	B class etc., complete		
work.			
		260m	
		=	85540.00
etc.,	complete as the		
		44Nos	
		=	6292.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192229

...

...work ..... From ..... To .....

...Contractor of nature of Agency.....

...commencement of work.....

Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
Item No 14: Supply & drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor conforming to table 3 class 5 of IS: 8130-1984 & Virgin grade PVC insulation & powder coating extruded PVC sheathed suitable for working voltage up to 1100 volts etc, complete as per Elec & the work.						
	1	540m	———	———	540m	
@ Rs 100.00/m	= 100 x 540				=	54000.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2 unit:	3	4	5	6	7	8
	Item No 15 : Labour charges for erection as new / repaired submersible pumpset along with GI pipe (32/50mm) (cabel new submersible pumpset if required will be supplied by the department free of cost & released pumpset should be handed over to department including transporation etc complete as per the EIC of the work.						
	Per/Length	1	44			44	
	@ Rs 69.00 =	69 x 44				=	3036.00

M. A.
Mea

From

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Number
2 unit	3
Item No 16 : Supplying & fi	
not less than 15mm thick	
not more than 2 pieces &	
layered inverted wooden pl	
Each	1
@ Rs 240.00 =	240 x 1

NT BOOK

nensions		Contents	Referer to las Measurer
Breadth 5	Depth 6	7	8
erection as new / repaired			
GI pipe (32/50mm) / cubel			
required will be supplied			
ured pumpset should be			
luding transporation etc			
k.			
		44	
		=	3036.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192230

..... From ..... To .....

Contractor of nature of Agency.....

commencement of work.....

Full description, etc, of work		Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
2	unit	3	4	5	6	7	8
Item No 16: Supplying & fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces & fixing the same to the wall using tapered inverted wooden plugs Screws etc., completion as per the EIC of the work.							
	Each	1				1	
@ Rs 240.00	=	~~240x1~~				=	240.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
							unit
	Item No 17: Supplying of 1.1 KV LT UG Cable Laying aluminium conductor PVC insulated, extruded inner sheathed, galvanized steel strip (except 2CX 10 Sqmm wire armoured) conforming to IS-3975: 1990 & extruded PVC outer sheathed armoured cable with Specified IS-1554 part 1: 1988 & conforming to GTP of Group-A etc., complete as per EIC & the work.						
		Mtr	1	30		30	
	@ Rs 111.00	= 11.00 × 30			=		3330.00

M. A
M
Fro
Contractor of nature of Agency
commencement of work

Full description, etc, of work	Numbe
2	3
	unit
Item No 18: Labour cha cable on existing trench wall / on pole as required. complete as per the directi	
	Mtr 1
@ Rs 8.00 =	8 × 30.0

BOOK

ons		Contents	Referer to las Measure
readth 5	Depth 6	7	8
Laying aluminium cond sheathed, galvanized, armoured) confirming to sheathed armoured .198x & confirming to EIC of the work.			
		30	
=			3330.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192231

...

...of work ..... From ..... To .....

...of Contractor of nature of Agency.....

...commencement of work.....

Full description, etc, of work	unit	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
2		3	4	5	6	7	8
Item No 18: Labour charges for laying of 1.1 KV class UG cable in cable or existing trench GI pipe/ stoneware pipe/ stoneware pipe/ on wall/ on pole as required. In existing trench/duct, 650sqmm to 165sqmm, complete as per the directions of the EIC of the work.							
	Mtr	1	30.00			30	
@ Rs 8.00 =		8 x	30.00			=	240.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	Item No19: Digging of trench of 0.6m deep x 0.50mtr wide Refilling the trench to the required ground level & consolidating etc., complete as per the E/c of the work.						
		m	1	25	———	25	
	@ Rs 67.00 =		67 x 25 =				1675.00
	Item No 20: Supplying & fixing of class A (Medium duty) GI pipe of wall thickness not less than 3.25 mm on pole/wall drain crossing with necessary clamping arrangements for						

T BOOK

sions		Contents	Refere to las Measure
Breadth 5	Depth 6	7	8
6m deep X 0.50mtr wide			
ed ground level & consolidating			
work.			
———		25	
			1675.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	unit						
	ND	1	—	—		1	
	@ Rs 222.00 =	222.00 × 1				=	222.00

Item No 22: Supplying, fixing, wiring earth electrode for grounding conduits IC outlets & other equipments, in the meter board using 40mm ϕ 2.90 mm thick GI pipe 2.5 m long buried in a pit; The pit should be filled with equal proportion of Salt & charcoal 150 mm all round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established thro GI wire of size as per ISI Specification

T BOOK

nsions		Contents	Refere to la Measur
Breadth 5	Depth 6	7	8
—		1	
		=	222.00
uring earth electrode for			
other equipments, in the meta			
GI pipe 2.5 m long buried			
d with equal proportion of			
the pipe to complete depth.			
nduit etc., is to be			
ear ISI Specification			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192233

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
1.5.3 of IS 732 using 12mm ϕ bolts, nuts, washers & checknuts etc., complete as per the Elc of the work.	1				1	
@ 2167.00 =	2167.00 × 1				=	2167.00
Item No 23: Supplying & fixing of porcelain fuse channel with cut out on existing wooden panel using necessary nuts, bolts & washers etc., complete as per the directions of Elc of the work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	unit	Dimensions				Contents	Refer to Measur
			Number	Length	Breadth	Depth		
1	2		3	4	5	6	7	8
	1	Nos	6				6	
	@ Rs 143.00 =		143 x 6 =				=	858.00
	Item No 24: Providing & fixing 50 mm nominal bore gun metal non return etc., complete as per the IEIC of the work.							
		Nos	1				1	
	@ Rs 1431.00 =		1431 x 1				=	1431.00

MENT BOOK

Dimensions			Contents	Refer to last Measur
ngth 4	Breadth 5	Depth 6	7	8
			6	
			= 858.00	
g 50 mm nominal bore complete as per the IEC				
			1	
			= 1431.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192234

..... work ..... From ..... To .....
Contractor of nature of Agency.....
Commencement of work.....

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Item No 25: Supplying & fixing miniature circuit breakers in existing MCB distribution boards using necessary fixing materials & 'C' type curve, indicator ON/OFF energy class-3 with short circuit breaking capacity of 10K & complete wiring as required confirming to IEC60898. 5-32 Amps Group A TPN etc. complete as per the EIC of the work.						
	1				1	
@ Rs 1229.00 =	1 X 1229.00				=	1229.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measur
	unit-	Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO 26: Fabricating Supplying & mounting MS box made out.. SWG Suitable for floor/wall mounting. fully weather proof with provision for better heat dissipation provided with hinged front cover, equipped with lamper proof locking arrangements, with suitable size clamps with necessary Cabel entry pipe with gland & box should be finished with 2 coats of red oxide primer paint & finally finished with approved colour enameled metal paint etc., complete as per the EIC of the work.						
	Sqm	1	23400	——		23400	
	@ RS 0.26 = 0.26 × 23400					=	6084.00

BOOK

dth	Depth 6	Contents 7	Refere to la Measur 8
& mounting MS bar			
mounting. fully			
heat dissipation			
equipped with lamp			
size clamps with			
& box should be			
other paint & finally			
metal paint etc.,			
		23400	
		=	6084.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192235

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Item NO 27: EWE for pipeline trenches including depositing or bank up to a lead of 50 mts including Shifting & stacking danger lighting & using site rails & boming poles at every 100 mts where ~~was~~ necessary as directed ~~in~~ the following ~~etc.~~ structure manhole. complete as per the direction of the EIC & the work.						
Qty as per premeasurements recorded vide pg NO 192285 to 192288 of this MB	648 cum				648	
@ Rs 149.00 =	149 x 648				=	96552.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 28: Providing outdoor panel upto 15.00 HP etc, complete & and as per the directions of EIC of the work. unit						
	NO	1	123.22			1	
	@ Rs 12322.00 =	123.22 × 1				=	12322.00
	Item No 29: Providing & installation at site of work PVC pipes including cost of pipes & specials & including lowering into trenches, laying true to line, level & perfect fitting at joints, leak proof including jointing encasing in pip						

MENT BOOK

Dimensions			Contents	Refer to la Measur
ength 4	Breadth 5	Depth 6	7	8
oor panel upto 15.00 HP etc.,				
ctions & EIC of the work.				
2322			1	
			=	12322.00
x 1				
ation at site of work PVC				
specials & including lowering				
line, level & perfect fitting				
ing jointing encasing in pipe				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192236

work ..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
unit						
ation to a depth not less than 15cm with grave or selected						
fill available from the excavation etc., complete & as per the						
ctions & EIC of the work.					1800	
Route	1800	1800				
@ Rs 97.00 = 97 X 1800 =						174600.00
1/PVC NP/30: Providing & installation at site of works PVC pipes						
including cost of pipes & specials & including lowering						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to M Measu
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 30: Refilling the basement & pipeline trenches with selected available earth for trench excavation including authority condition in layers from 15cm incl. dispon sary of the surplus earth with a heavy 200 m etc., complete & as per the directions of EIC of the work						
	Qty same as item No 27					648 cum	
		cum	1				
	@ Rs 48.00 = 48.00 × 648					=	31104.00

IT BOOK

nsions		Contents	Refer to l Measur
Breadth 5	Depth 6	7	8
nt &	pipeline trenches		
r trench	excavation		
ayers from	the di including		
a heavy	200 m etc.,		
f the work			
		648 cum	
		=	31104.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192237

Work .....
Contractor of nature of Agency.....
Commencement of work.....

From ..... To .....

Full description, etc, of work	Unit	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
2		3	4	5	6	7	8
Item No 31: Providing NP/CP waste unions conforming to ISI Specifications & fixing them in position as per direction including cost of all materials, fixtures & conveyance to work spot etc., complete for 50mm ø etc., complete as per the direction of EIC of the work.							
	Each	1	@Rs176.00			@Rs=176.00 =	
@ Rs 176.00 x 1						=	176.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref. to Measu.
		Number	Length	Breadth	Depth		
1	2 unit	3	4	5	6	7	
	Item NO 32: Providing & fixing in position brass gate Valve with CI wheel of approved quality (Screwed end) 50 mm nominal bore including cost of all materials, labour & HOM of equipments with all leads complete as per Specifications with all lead & lift, loading, unloading & labour charges etc. complete & as per the direction of the EIC of the work.						
	Each	18				18	
	@ Rs 1772.00 = 1772.00 X 18					=	31896.00
						Total.	779539.0

ENT BOOK

Dimensions			Contents	Refer to last Measu
h	Breadth 5	Depth 6	7	8
ing	in position brass gate			
d	quality (screwed end)			
	cost of all materials,			
	all leads complete as			
	left, loading, unloading			
	as per the direction of the			
			18	
			=	31896.00
		Total.		7795390

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192238

Work ..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
GST for Items No 31 & 32 @ 12% for Rs 32072.00 =						3848.64.
Basoon deposit = 1731 + 9140 + 9 + 100						= 10980.00
				Total.		794367.64
Certificate:						
1) Certified that the above work done satisfactorily & no materials are issued from department.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to M Measur
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2. Contractor has cleared the debris from work site.						

Suretha. N R
AE-WN. 10
30/09/19

30/9

T BOOK

sions		Contents	Refer to l Measur
Breadth 5	Depth 6	7	8
debris	from work site.		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 192239

..... From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
Nanjappa circle Road						
C. Rawlinson layout						
12th cross						
11th cross						
10th cross						
9th cross						
8th cross						

Sweeta. NK
Allow to 30/09/19

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to Measurement Book
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

2nd phase channalathwar Layout

3rd Cross channalathwar Layout

Aswath Katte Road

3rd cross 'A' cross

3rd cross 'B' cross

3rd cross 'C' cross

Aswath Katte Road

INDEX:

- Pipe line laid

Suretha.NK
AE-WW-10
30/09/19

30/9/19